AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended) A magnetic recording medium comprising:
 - a non-magnetic base material;
- a ferromagnetic metal layer of a cobalt based alloy formed on top of said non-magnetic base material; and
- a metal underlayer disposed between said base material and said ferromagnetic metal layer, wherein,
 - a coercive force Hc is at least 2000 (Oe),
- an anisotropic magnetic field Hk^{grain} is at least $10,000\,(\text{Oe})$, and

said metal underlayer incorporates an underfilm of either one of Cr and a Cr alloy, and said Cr alloy also incorporates comprising Mo and/or W_{\bullet}

wherein a lattice misfit of said metal underlayer and said ferromagnetic metal layer, as determined by an equation (y- \times) / (x/2 + y/2) • 100(%), in which x represents a length obtained by multiplying by square root of 2 a lattice constant of said metal underlayer and y represents a c axis length of a

crystal lattice of said ferromagnetic metal layer, is a value from 0.5% to 2.5%, and

an axial length ratio a/b of an interatomic distance a in a direction of a normal line to said ferromagnetic metal layer relative to an interatomic distance b in a direction within a plane of said ferromagnetic metal layer is within a range from 1.002 to 1.008.

- 2. (original) A magnetic recording medium according to claim 1, wherein said metal underlayer and said ferromagnetic metal layer are formed in a film fabrication chamber with an ultimate vacuum at a 10^{-9} Torr level, using a film fabrication gas with an impurity concentration of no more than 1 ppb.
 - 3. (canceled)
- 4. (currently amended) A magnetic recording medium according to claim 1, wherein said metal underlayer incorporates an underfilm of either one of <u>i</u>) Cr and <u>ii</u>) a Cr alloy <u>comprising</u>

 Mo and/or W, and <u>said Cr alloy incorporates</u> at least one, or two or more elements element selected from a group consisting of V,

 Nb, Hf, Zr, Ti, Mn, Ta, Ru, Re, Os, Ir, Rh, Pd, Pt, P, B, Si, Ge,

 N and O.
- 5. (currently amended) A magnetic recording medium according to any one of claim 1, wherein a film thickness of said metal underlayer is within a range from 3 nm to 20 nm.

- 6. (previously presented) A magnetic recording medium according to claim 1, wherein said metal underlayer comprises a layered structure of two or more underfilms with different lattice constants.
- 7. (original) A magnetic recording medium according to claim 6, wherein said metal underlayer is a two layered construction with a second underfilm layered on top of a first underfilm, and a film thickness ratio t_2/t_1 of a film thickness t_1 of said first underfilm and a film thickness t_2 of said second underfilm is within a range from 0.2 to 5.0.
- 8. (original) A magnetic recording medium according to claim 7, wherein a film thickness of said first underfilm is within a range from 1.5 nm to 8.5 nm.
- 9. (previously presented) A magnetic recording medium according to claim 7, wherein a film thickness of said second underfilm is within a range from 1.5 nm to 8.5 nm.
 - 10. (canceled)
- 11. (currently amended) A magnetic recording medium according to claim [[10]] $\underline{1}$, wherein said lattice misfit of said metal underlayer and said ferromagnetic metal layer is a value from 0.5% to 1.5%.
- 12. (currently amended) A magnetic recording medium according to claim 1, wherein in a crystal lattice of said ferromagnetic metal layer of said cobalt based alloy, [[an]] said

interatomic distance a in a direction of a normal line to said ferromagnetic metal layer is larger than [[an]] <u>said</u> interatomic distance b in a direction within a plane of said ferromagnetic metal layer.

13-16. (canceled)

- 17. (previously presented) A magnetic recording device comprising a magnetic recording medium according to claim 1, a drive section for driving said magnetic recording medium, and a magnetic head for carrying out recording and playback of magnetic information, wherein said magnetic head performs recording and playback of magnetic information on a moving said magnetic recording medium.
 - 18. (canceled)
- 19. (previously presented) A magnetic recording medium according to claim 2, wherein said metal underlayer comprises a layered structure of two or more underfilms with different lattice constants.
- 20. (previously presented) A magnetic recording medium according to claim 1, wherein said metal underlayer comprises a layered structure of two or more underfilm with different lattice constants.
- 21. (currently amended) A magnetic recording medium, comprising:
 - a non-magnetic base material;

a metal underlayer formed on top of said non-magnetic base material and incorporating an underfilm of either one of Cr and a Cr alloy incorporating Mo or W; and

a ferromagnetic metal layer of a cobalt based alloy formed on top of said non-magnetic base material and said ferromagnetic metal layer underlayer so that said metal underlayer is disposed between said base material and said ferromagnetic metal layer, wherein,

at a same time, a coercive force Hc is at least 2000 $\,$ (Oe), and an anisotropic magnetic field Hk^{grain} is at least 10,000 $\,$ (Oe),

a lattice misfit of said metal underlayer and said ferromagnetic metal layer, as determined by an equation (y-x) / $(x/2 + y/2) \cdot 100(\%)$, in which x represents a length obtained by multiplying by square root of 2 a lattice constant of said metal underlayer and y represents a c axis length of a crystal lattice of said ferromagnetic metal layer, is a value from 0.5% to 2.5%, and

an axial length ratio a/b of an interatomic distance a in a direction of a normal line to said ferromagnetic metal layer relative to an interatomic distance b in a direction within a plane of said ferromagnetic metal layer is within a range from 1.002 to 1.008.

- 22. (previously presented) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating Mo.
- 23. (previously presented) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating W.
- 24. (previously presented) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating Mo and W.